ABSTRACT

A network communication is performed automatically and in an optimal manner in radio ad-hoc communications. A communication terminal is configured to serve as one of a plurality of nodes composing a cluster as well as serve as a cluster head that allows communication with remaining nodes of cluster members and includes: a unit 11 for determining aptitude degree as cluster head that comprehends communication conditions with the cluster members; unit 12 for creating schedules for change of cluster head that creates schedule tables 15 to circulate the cluster members in order as a tentative cluster head; a unit 21 for monitoring aptitude degree of communication conditions that recognizes communication conditions with other nodes when the cluster member becomes the tentative cluster head; and a unit 26 for reconfiguring cluster that reconfigures the cluster based on the comprehended communication conditions and the recognized communication conditions.